

What is claimed is:

1. A decibel level adjustment device for calculating an output signal which is a d decibel multiple of an input signal, comprising:

5 other for shifting said input signal exactly a designated number of bits in a designated direction;

a shift amount control circuit means for receiving the value of said d as a decibel control value and, in accordance with said decibel control value, for generating 10 and outputting a control signal indicating the direction and number of bits of shifting of each of said shift means; and

adder means for adding the outputs of said shift circuits together.

2. A device according to claim 1, further comprising an additional shift means for shifting the output of said addition means exactly a designated number of bits in a designated direction;

5 wherein said shift amount control circuit means generates and outputs a control signal indicating the shift direction and number of bits of shifting of said additional shift means.

3. A device according to claim 1, wherein said

shift means is a barrel shifter.

4. A device according to claim 2, wherein said shift means is a barrel shifter.

5. A decibel level adjustment device for calculating an output signal which is a d decibel multiple of an input signal, comprising:

5 a plurality of signal lines arranged parallel to each other for producing in advance signals that are shifted a number of bits necessary for operating on said input signal;

at least one switch means for selecting outputs of said plurality of signal lines or all "0";

10 a switch control circuit means for receiving the value of said d as a decibel control value and, in accordance with said decibel control value, switching said switch or switches; and

15 an adder circuit means for adding together the outputs of said switch or switches and output of said signal lines that does not pass by way of said switch or switches.